What is claimed is:

- 1. A method for manufacturing a weak alkaline organic fertilizer from organic waste including food waste, the method comprising the steps of:
- (a) adding 0.1 to 5 parts by weight of a desalter based on 100 parts by weight of the organic waste including food waste with agitating to remove saline matters from the organic waste;
- (b) adding 5 to 40 parts by weight of quick lime or dolomite based on 100 parts by weight of the organic waste to the product of the step (a) for hydration;
- (c) mixing the product of the step (b) with agitating for aging;
- (d) mixing the product of the step (c) and adding an ingredient improver of the product;
- (e) adding a deodorizer to the product of the step (d) with agitating for elimination of malodorous volatile matters from the product and deodorization; and
- (f) adding a carbon dioxide gas or a combustion gas containing the carbon dioxide gas to the product of the step (d) to cause a carbonation with the hydrated lime and/or dolomite in the order of the steps (d), (c) and (b).
- 2. The method as claimed in claim 1, wherein the desalter is selected from the group consisting of waste gypsum and gypsum ($CaSO_4$), calcium carbonate ($CaCO_3$) or calcium chloride ($CaCl_2$).
- 3. The method as claimed in claim 1, wherein the ingredient improver is selected from the group consisting of a siliceous material, including wollastonite powder or slags of ironwork byproducts; a carbon ingredient, including graphite, active carbon or charcoal; sawdust for control of moisture absorption; bentonite or zeolite for improving a

cation exchange capacity; supplementary organic matters, including farmyard manure, fish cake, oil cake or sludge; and clay minerals for supplying micronutrient elements.

- 4. The method as claimed in claim 1, wherein the deodorizer is selected from the group consisting of active carbon, zeolite, bentonite, and charcoal.
- A method for manufacturing a plant functionality provider, comprising the steps of: mixing, based on 100 parts by weight of acetic acid, 0.3 to 1.0 part by weight of chitosan and/or its derivative having a molecular weight of less than 30,000, 10 to 18 parts by weight of boric acid, 5 to 15 parts by weight of ferric chloride and 0.2 to 0,8 part by weight of ascorbic acid at a temperature of 30 to 40 °C with sufficient agitating, and standing the mixture for at least 24 hours to enhance the plants' absorption of nutriment such as calcium.
- 6. A method for manufacturing a functional plant agent, comprising the step of mixing 0.5 to 6 parts by weight of the plant functionality provider according to claim 5 with 100 parts by weight of the individual organic fertilizer according to claim 1.
- 7 A method for manufacturing a plant functionality promoter, comprising the steps of:
- (a) mixing, based on 100 parts by weight of acetic acid, 800 to 850 parts by weight of water and 70 to 130 parts by weight of dolomite powder at a temperature of 30 to 40 °C with agitating;
- (b) adding 0.3 to 1.0 part by weight of chitosan and/or its derivative having a molecular weight of less than

30,000, 10 to 18 parts by weight of boric acid, 5 to 15 parts by weight of ferric chloride, and 0.2 to 0.8 part by weight of ascorbic acid, with agitating;

- (c) standing the resulting mixture of the step (b) for at least 24 hours; and/or
- (d) powdering the resulting mixture of the step (c) through dehydration, drying and pulverization.
- 8. A method for manufacturing a functional plant agent, comprising the step of adding 0.5 to 6 parts by weight of the plant functionality promoter according to claim 7 based on 100 parts by weight of the individual fertilizer according to claim 1.